

18 Nov 2000

Memorandum (to be included as an enclosure)

From: LCDR [REDACTED], JAGC, USN  
To: USS COLE (DDG 67) Investigation File

Subj: USS COLE (DDG 67) SMALL ARMS WEAPONS ALLOWANCE;  
RANGES OF VARIOUS SMALL ARMS WEAPONS


Encl: [attached are seven pages faxed from Naval Surface Warfare Center (NSWC), Crane, Indiana]

1. In an effort to verify the type and quantity of small arms that USS COLE (DDG 67) had onboard at the time of the attack on 12 October 2000, I contacted several officials at the Naval Surface Warfare Center (NSWC), Crane, Indiana, on 16 November 2000. As outlined below, they provided various documents by fax and information by phone:

- Ms. Kathleen Row, Branch Manager, Navy Small Arms Allowance and Small Arms Registry, faxed me a copy of the "Navy Small Arms Equipment Allowance List" for USS COLE (DDG 67). She said the list shows what ships are authorized to have. She also said that there is no standard deviation or percentage with which ships have to comply. Additionally, she faxed me a copy of COLE's latest "Small Arms Asset Verification List," dated 31 July 2000. The numbers on COLE's report correspond to their authorized small arms allowance.
- Mr. Terry O'Brien, a Small Arms Inservice Engineer at NSWC, provided me the information on max. effective ranges and max. ranges for various weapons as well as a fax picture of the M-60 machine gun. The ranges are as follows:

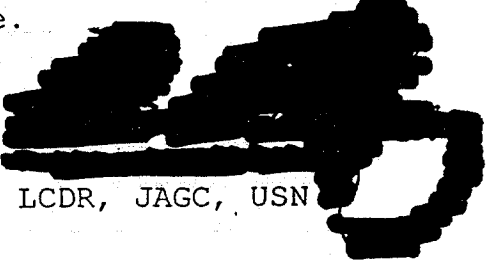
WEAPON	MAX EFFECTIVE RANGE	MAX RANGE (TRAVELLING DISTANCE)
9-MM	50 METERS	1800 METERS
M-60 MACHINE GUN	600 meters (pt target); 1100 meters (area target)	3725 meters
M-14 Rifle	460 meters (pt target)	3725 meters

Encl (58)  
Page 1 of 4



.50-CAL machine gun	1829 meters (pt target)	6767 meters
M-79 grenade launcher	Min. safety range (31 meters)	400 meters
12-gauge shotgun	40 meters (estimate)	250 meters

- Also, I talked with Mr. Chuck Fellers, NSWC, regarding concussion grenades. He also faxed me some material for reference.



LCDR, JAGC, USN

V21941  
COLE

DDG-67

**Navy Small Arms**

1005-00-589-1271	RIFLE 7.62MM M14 W/E	17
1005-00-605-7710	MACHGUN 7.62MM M60 W/E	4
1005-01-118-2640	PISTOL 9MM BERETTA M9 ARMY	28
1005-01-343-0747	MACHGUN CAL 50 M2HB MODIFIED	4
1005-01-371-5639	SHOTGUN 12GA MOSS 20BL 500 A2 RIOT	14
1095-00-726-5820	PISTOL PYRO AN/M8	3
1095-01-079-0140	KIT L/THRO MK87-1	8

**Navy Mounts**

1005-00-139-5600	MOUNT GUN 7.62 M60 MK 58 MOD 5	4
1005-01-318-8615	MOUNT SOFT CAL 50 MK26 MOD 17	4

**Navy Weapons**

1010-00-691-1382	LAUNCHER GRENADE 40MM M79 W/E	2
------------------	-------------------------------	---

**Navy Small Arms Accessories**

1005-00-587-8408	SELECTOR F/M14 RIFLE	4
5315-00-051-6891	SELECTOR PIN F/M14 RIFLE	4
5360-00-587-8415	SPRING SELECTOR F/M14 RIFLE	4

**Notes**

1. 1005-01-371-5639, 1005-01-085-1032 AND 1005-00-999-4213 ARE STD NAVY 20 IN BARREL SHOTGUNS. 1005-01-371-5639 WILL BE USED FOR REQN PURPOSES. ICP MAY SUB REQN ITEM DUE TO CURRENT INV STATUS.
2. SASDT OF 3 OCT 93.
3. COMNAVSEASYS COM LTR 8370 SER 91WE/135 OF 23 JUN 94.

Encl (58)  
Page 3 of 9

NAVY SMALL ARMS ASSET VERIFICATION LIST

V21841

C01E

Encl (58)  
Page 4 of 9

Return one complete copy of this package (including this certification page, all pages of serial number listings and any required attachments) within 45 days to:

COMMANDER  
CODE 4086 BLDG 2621  
NAVSURFNAVCENDIV  
300 HIGHWAY 381  
CRANE IN 47622-5001

Notes:

Serial numbers with dash and number suffix indicate duplication of serial numbers within the Registry. Serial numbers with a dash and alpha suffix indicate M (missing), L (lost) or S (station). Dash and number/alpha suffix are not part of the serial number.

This report is to be signed and dated by two individuals conducting the annual inventory.

Signature \_\_\_\_\_

Date 31 JUL 00

Signature \_\_\_\_\_

Date 31 JUL 00

I certify that quantities and serial numbers listed on this report have been verified and are correct or any discrepancies are supported by attached documentation.

Signature \_\_\_\_\_

(Accountable Officer)

Date 31 JUL 00

Please provide a point of contact at your unit to assist in resolving any problems that might arise concerning this report.

Print Name \_\_\_\_\_

(Include rank)

Email \_\_\_\_\_

Telephone: \_\_\_\_\_

Commercial 657-444-1820

DSN 564-7460

FAX 657-444-7460

FORWARDED BY  
05 OCT 2000

RECEIVED  
AUG 14 2000

ENCLOSURE (1)

pt:5555

FOR: L03

HULL NO: D06-67

NAVY SMALL ARMS ASSET VERIFICATION LIST  
V21941  
COLE

Encl (58)  
Page 5 of

IC: 1050 NSN: 1005-01-178-2640 CMD: A GRP: 1 STA: 1 WOMEN: PISTOL 9MM BERETTA M9 ARMY

1108789	1109800	1108804	1109806	1109807	1109809	1109810	1260250
1260251	1260253	1260256	1260267	1260269	1260271	1260272	1260273
1260277	1344792	1344793	1344795	1344796	1344797	1344805	1344835
1344836	1344838	1405375	1405376				

ITEM TOTAL: 28 ✓

IC: 1200 NSN: 1095-00-725-6620 CMD: A GRP: 1 STA: 1 WOMEN: PISTOL PYRO AM/NB

275231	330859	342385
--------	--------	--------

ITEM TOTAL: 3 ✓

IC: 2083 NSN: 1005-00-569-1271 CMD: A GRP: 1 STA: 1 WOMEN: RIFLE 7.62MM M14 M/E

543164	810624	866206	888251	890020	900112	910583	916852
935346	935620	936414	1063270	1088625	1137181	1146438	1253577
11003167							

ITEM TOTAL: 17 ✓

IC: 2342 NSN: 1005-01-371-5639 CMD: A GRP: 1 STA: 1 WOMEN: SHOTGUN 12GA NOSS 20BL 500 A2 RIOT

US18848	US18427	US19562	US01870	US020827	US020907	US020883	US026323
US027450	US028002	US028253	US028739	US028838	US028863		

ITEM TOTAL: 14 ✓

27 JUN 201

11-16-0 : 9:57AM : SMALL ARMS OF DEPT-

SENT BY:

RP15555

NAVY SMALL ARMS ASSET VERIFICATION LIST

V21941

CMOR: L03 HULL NO: 006-07

COLE

EIC: 4023 NSN: 1005-00-805-7710 CMD: A GRP: 1 STA: 1 NOMEN: MACHGUN 7.62MM M60 W/E

218438 238004 238007 238009

ITEM TOTAL: 4 ✓

EIC: 4050 NSN: 1005-01-343-0747 CMD: A GRP: 1 STA: 1 NOMEN: MACHGUN CAL 50 M2HB MODIFIED

M3014077 M3017151 M3022735 M3024389

ITEM TOTAL: 4 ✓

EIC: 5004 NSN: 1010-00-691-1382 CMD: A GRP: 1 STA: 1 NOMEN: LAUNCHER GRENADE 40MM M79 W/E

88245 98077

ITEM TOTAL: 2 ✓

EIC: 9001 NSN: 1005-01-318-6515 CMD: A GRP: 9 STA: 1 NOMEN: MOUNT SOFT CAL 50 M25 MOD 17

ITEM TOTAL: 4 ✓ (SOME OR ALL ARE UNSERIALIZED, VERIFY UNSERIALIZED ASSETS BY QUANTITY ONLY)

ACTIVITY TOTAL: 78

Encl (58)  
Page 6 of 9

27 Jun 2007

SW010-AD-GTP-010

**5. OFFENSIVE HAND GRENADES.**

The purpose of offensive hand grenades is to produce blast effects. Since they may project fragments over 185 meters (607 feet) from the point of explosion, these hand grenades are not used in training without the availability of adequate safety cover. See Table 9-3 for packaging and identification data.

**9-5.1. GRENADE, HAND OFFENSIVE, MK 3A1 AND MK 3A2 WITHOUT FUZE, (G910).****WARNING**

**USING THIS GRENADE WITH A M206A1 FUZE WITHOUT SAFETY CLIP IS NOT AUTHORIZED.**

**9-5.1.1. Intended Use.** These hand grenades, Figure 9-6, are designed and procured to be used for blast effect or demolition and produce casualties during close combat with minimum danger to friendly personnel.

**9-5.1.2. Description.** This offensive hand grenade consists of a cylindrical body of pressed fiber containing 7.36 ounces (208 grams) of TNT. The grenade shall only be assembled with the M206A2 fuze or M206A1 fuze modified with safety clip. The grenade weighs 15.6 ounces (442 grams), is 5.275 inches (13.39 centimeters) long, and is black with yellow markings.

**9-5.1.3. Function.** After assembly with M206A2 fuze, release of the safety clip and removal of the safety pin permit release of the safety lever. When the safety lever is released, it is forced away from the grenade body by a striker acting under the force of a striker spring. The striker rotates on its axis and strikes the percussion primer. The primer emits a small, intense flame, igniting the delay element. The delay element burns for 4 to 5 seconds and sets off the detonator. The detonator explodes, initiating the explosive charge. When the filler detonates, the force of the explosion is dissipated mainly in the form of shock waves rather than high-velocity fragments.

**9-5.2. GRENADE, HAND, OFFENSIVE, MK 3A2 WITH FUZE M206 SERIES (G911).****WARNING**

**USING THIS GRENADE WITH A M206A1 FUZE WITHOUT SAFETY CLIP IS NOT AUTHORIZED.**

**9-5.2.1. Intended Use.** This hand grenade is designed and procured to be used for blast effects or demolition and produce casualties during close combat with minimum danger to friendly personnel.

**9-5.2.2. Description.** This hand grenade resembles the Mk 3A2 Hand Grenade, Figure 9-6, in appearance, size and construction. The grenade body is a pressed fiber cylinder containing 8 ounces (226 grams) of high explosive TNT. The M206 series fuze is a pyrotechnic delay-detonating device containing a primer and a pyrotechnic delay column. Assembled to the fuze body are a striker, striker spring, safety lever, safety pin with pull ring and the detonator assembly. Attached at the top to keep the safety lever in place is a safety clip. The safety clip is a loop of spring steel wire fitted around the threaded section of the fuze and a clamp that fits over the safety lever. The grenade weighs 15.6 ounces (442 grams), is 5.275 inches (13.39 centimeters) long, has a diameter of 2.13 inches (5.41 centimeters), and is black with yellow markings.

**9-5.2.3. Function.** Release of the safety clip and removal of the safety pin permit release of the safety lever. When the safety lever is released, it is forced away from the grenade body by a striker acting under the force of a striker spring. The striker rotates on its axis and strikes the percussion primer. The primer emits a small, intense flame, igniting the delay element. The delay element burns for 4 to 5 seconds and sets off the detonator. The detonator explodes, initiating the explosive charge. When the filler detonates, the force of the explosion dissipated mainly in the form of shock waves rather than high-velocity fragments.

Encl (58)

Page 7 of 9

9-10

07-05-01 03:04 TO:

FROM:

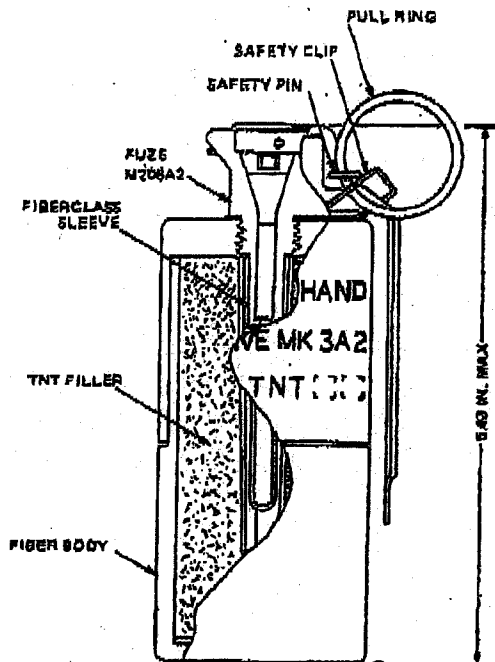


Figure 9-6. Offensive Hand Grenade Mk 3A2.

Table 9-3. Offensive Hand Grenades

ITEM	DODIC/ NALC	PARA	NSN	Ref No.	Packaging
Grenade, Hand, Offensive, Mk 3A1, W/O Fuze	G910	9-5.1	1330-00-028-5844	75-14-346	24 per wooden box
	G910	9-5.1	1330-00-028-5845	75-14-346	50 per wooden box
Grenade, Hand, Offensive, Mk 3A2 W/O Fuze	G910	9-5.1	1330-00-028-5846	9215458	50 per wooden box
	G910		1330-00-203-4233	9215458	1 per fiber container M340, 20 containers per wooden box
Grenade, Hand, Offensive, Mk 3A2 W/ Fuze M206A2, W/Safety Clip	G911	9-5.2	1330-00-194-2768	9215458	1 per fiber container, 20 contain- ers per wooden box
Grenade, Hand, Offensive, M3A2, W/Fuze M206 Series	G911	9-5.2	1330-00-143-6807	9215458	1 per fiber container, 20 contain- ers per wooden box

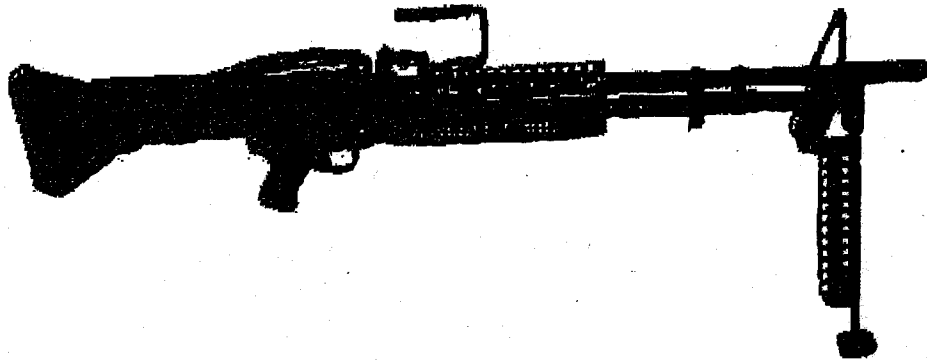
Encl (58)  
Page 8 of 9

9-11



OED/C-00-011

## M60 Machine Gun



<b>Weapon Specification</b>		<b>Ammunition:</b>	
NSN	1005-00-605-7710	Individual Rounds	100 round Bandoleers
Model	M60 Basic	M62, Tracer	A111 all M62
Manufacturer	Saco Def. Corp	M63, Dummy	A127 mix of 4 M80 & 1 M62
Caliber	7.62mm NATO	M80, Ball	A131 mix of 4 M80 & 1 M62
Mechanism type	Automatic	M80E1, Low flash ball	A143 all M80
Magazine type	Bandoleer	M82, blank	A159 all M63
Ammo capacity	100 rounds	M993, Armor Piercing	A255 mix of 4 M80E1 & 1 M62
Rate of fire	550 RPM		AA04 mix of 4 M993 & 1 M62
Sustained Rate	100 RPM		AA35 mix of 4 M993 & 1M276
Weight (empty)	23 lbs.	<b>Logistics:</b>	
Overall length	43.5 inches	In-service Date	1960
		Life expectancy	25,000 rounds
		Technical Manual #	TM 9-1005-224-24P
		Operator Manual #	TM 9-1005-224-10
<p><b>Discussion:</b> The M60 7.62mm machine gun is a general purpose weapon capable of being fired from prone, standing and several mounts. The M60 is a watercraft, vehicle, tripod mounted or carried machine gun.</p>			
<p><b>Accessories:</b> M13A1, BFA for M60, NSN:1005-00-140-3515, pn 12002981; Viewer Mount, NSN 5855-01-046-7272, PN SM-D-850340-1; Adapter for AN/PEQ-2, NSN 5340-01-362-9873, PN A3186952; Night Vision Sight AN/PVS-4, NSN 5855-00-629-5334</p>			

OPTIONAL FORM 99 (7-90)

## FAX TRANSMITTAL

# of pages 1

To	LCDR	From	Terry O'Brien
Dept./Agency		Phone #	NSWC Crane
Fax #	318 439 3952	Fax #	NSW 482-5831
NSN 7540-01-317-7868	5099-101	GENERAL SERVICES ADMINISTRATION	

Encl (58)  
Page 9 of 9

07-05-01 04:32 TO:

FROM: 812